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ŧ	NOPLONTNYKE) TVFVI.GG====	EVEVLGG	DIELONIMHED	NPTLED LNYKE	NSTLEELNYKE	KOLLOSTNYKO	SPSIKNMWYOD	TDAL QUMNYKD	NOPLKWTWYKD	QD LMQNTINYKD	OMATEMILHAKO	NAVMKNGNYKD	*	ITVFUPAGEQD	WGIFGPSQ	WGIFGPSQ	i		LNAIUPSD	IPVLFPAQDQS		AGLLUPENG	VGQLUPSKS	LPIFWOGSDPA	SELLUPEDDTQ	VSLFUPTIEEK KTITENNVS	
40	NRNIDHSRYPYTNNPNOPLONT -NINECIDYNCLSNPEVEVI.GG	-NINECIPYNCLSNPEVEVIGG	-KISTDSLKNETDIELQNINHEDCLKMSEYEN-	VPTNHVQYPLAETPNPTLEDLNYKEFLRMTADNN	LPTNHNQYPLADNPNSTLEELNYKEFLRMTADNS-	-isnnytrypienspkollostnykdwinmcoonoo	-TLNNSINYPTOKALSPSIKNMNYODFLSITEREOP-	VSSD SNRYP FANE PTDAL QNMNYKD YLKMSGGENPEL	KSNNYSRYPLANKPNQPLKNTNYKDWLNVCQDNQQYGNN	NIYPRYPLANPO	NCYPKYPLANDP	-mpnrypfaddpnavmkngnykduvnecegsn	* 120	IIGAIIISFGTL	-VPGAGFVLGLVDIIWGIFGPSQ-	VPGAGFVLGLVDIIWGIFGPSO-	VPFAGQVASLYSFILGELUP-KG	FPFGGALVSFYTMFLNTIUPS-	VPFAGALTSFYQSFLNAIUPSD	FTTPLGLALIGFGTLIPVLFPAQDQSN-TUSDFITQTKNIIKKELA		-VPGASFITNFYLKIAGLLUPENGKI-UDEFMTEVEALIDQKIE	-VPFASQIASFYSFIVGQLUPSKSVDIUGEIMERVEELVDQKIE	APVLAAGIISFGTLLPIFWQGSDPANVWQDLLNIGGRPIQEID	-IILDTIGLFYQISELLUPEDDTQQYTWQDIMNHVEDLIDKRIT	-MIPEVGPLLSUMVSLFUPTIEEKNIVUEDMIKYVANLLKQELT SLADSIKSSLGISKTITENNVSQVSMVQVHQIINRRIQ	
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 c	ANON-P		MKLK	MIRKGGRKMNPN	MIRMGGRKMNPND	MNPYO		MdSH	MINPYO	MHYYG	WIRAGI	OADMW	80	ADTIAAVSAGTI	-ERIETGYTPID	-ERIETGYTPID.			VLDSSTVRDAVG	DFETFIDSGELS		-EALASGNTAIN	NPETFISSSTIO	NFASSETIVGVS,		SGPSQLFK	
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160 * 180 ESIKQLKLQTLEGFRQILQ-SYNTALDDÜRKLKRLQAPG EFARNQAISRLEGLSNLYQ-IYAESFREWEAD PTN EFARNÇALTDLKGLGDALA-VYHDSLESWYGNRNN DYAKNKALAELGGLQNNVE-DYVSALSSWGKNPVSS EYAKSKALAELGGLONNYE-DYVNALDSWKKAPVNL STYISNANKILNRSFNVIS-TYHNHLKTWENNPN	EYVRNKAIAELDGLGSALD-KYQKALADWLGKQDD KYVKDKALAELKGLGNALD-VYQQSLEDWLENRND KNIINYLTSIYTPIKNQLD-KYQEFFDKWEPARTH EVIRGNAIRTLADLQGKVD-DYNNWLKKWKDDP NDTLNRATSNLSGLNESLN-IYNRALAAWKQNK ETILDLGESSLNGLVAIYNRDYLGALEAWNNKSN	* 240 * 260 * 280 * 300 TYKTLLIPIYAQAANFHLNILQQGAELADEWNADIHPSQIEPNAGTSDDYYK-LIKENIPKYSNYCANTYYQVPLISYYQQAANIHLSVLRDVSVFGQRWGFDAATINSRYN-DITRLIGNYTDYAVRWYYQVPLISYYQQAANIHLSVLRDVSVFG
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exmino7 crylAe crylAc crylIe cry3Ael cry3Be	crytae crytae crybae cryloae cryloae	exmi007 crylAe crylAc crylAc cry3Be cry3Be cry4Ae cry6Ae cry6Ae cry6Ae cry6Ae

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AGO * -RIGGIKTELTREIYITEIIRTVSQLTREIYINPVIKTTAQLTREIYINPVKEVKTELTRDVLTDPIKGVKTELTRDIFTDPIKGVKTELTRDIFTDPIA-EUUNKNLYPLIIA-EUUNKNLYPLIIA-EUUNKNLYPLIIIETTAQLTREYYTDPIIETTAQLTREYYTDPIIETVKELTREIYSDVIIEVKRELTREIYSDVIKIHVKAELTREIYSDVI	* 440 * 450
8 H	400 * 440 LAIMEYNLTRSGLRLFSFLDELIFYTKNETYGNRLVGIANRNRSTYAT MAQRIEONIRQ-PHLMDILNSITIYTDVHRGFNYWSGHQITASPVGFS SAQGIERSIRS-PHLMDILNSITIYTDVHRGFNYWSGHQITASPVGFS SAQGIERSIRS-PHLMDILNSITIYTDAHRGYYYWSGHQIMASPVGFS FSAIEAAVVRN-PHLFDYLRIQFHTRFQPGYYGNDSFNYWS TFSNIENYIRK-PHLFDYLRIQFHTRFQPGYYGNDSFNYWS -FQYQEDSLTRRPHLFTWLDSLNFYEKAQTTPNNFFTSHYNMFHYTLD FKVAGDPSIKKDGYFKKLQDELDNIVDNNSDDDAIAKAIKDFKARCGI FSQMENTAIRT-PHLVDYLDELYIYTSKYKAFSHEIQPDLFYWSAHKV FYEVENNVIRP-PHLFTWLNGRFYTRNSRDILDPYDIFSFT FERAESLYTRA-PHLFTWLKGFRFVTNSINSWTFLSGGGNKYSYTNNS FEHAESLYTRR-PHAFTWLKGFRFVTNSINSWTFLSGGGNRYSTHGE
* RYKDSIG- RRYP RRYP ILYP KRYP KRYP KRYP KRYP KRYP RRYP RRYP	* CNETYGNE, NAHRGYYY LES KAQTTPMN SKYKAFSH SKYKAFSH USR UNSR UNSR USISYUTF
R-WSIFNDYRRYMTITVLDTIAQFSFYDIKRYKDSIG- RDWYRYNQFRREITLTVLDIVALFSNYDSRRYP RDWYRYNQFRREITLTVLDIVALFPNYDSRRYP ESWYRYNQFRREMTLTVLDLIALFPLYDVRLYP ESWYNFURFREMTLTVLDLIALFPLYDVRLYP DAWYKFNRFREMTLTVLDLIVLFPFYDVRLYS EQWINYNRFREMTLAVLDLVALFPNYDVGKYP KSWINYHQFRREMTLAVLDLVALFPNYDTHMYP ATWNYNTYRLEMTLIVLDLIALFPNYDTHMYP ATWNYNTYRLEMTLTVLDLIALFPNYDTHMYP	400 * 420 LAIMEYNLTRSGIRLFSFLDELIFYTKNETYG MAQRIEONIRQ-PHLMDILNSITIYTDVHRGE SAGGIERSIRS-PHLMDILNSITIYTDAHRGY PSFSAIEAAVVRN-PHLDFLEQVTIYSLLSTTFSNIENYIRK-PHLFDYLRGIEFHTRIRPFQYQEDSLTRRPHLFTWLDSLNFYEKAQTTP FQYQEDSLTRRPHLFTWLDSLNFYEKAQTTP FQYQEDSLTRRPHLFTWLDSLNFYEKAQTTP FYVAGDPSIKKDGYFKKLQDELVIYTSKYKAF ILFYEVENNVIRP-PHLFDILSSVEINTSRGGTIRNPTLFTWINGGRFYTRNSRFEKAESLYTRA-PHLFTWLKGFRFVTNSISYW FEKAESLYTRR-PHAFTWLKGFRFVTNSISYW LANFNDLEREVTDSPSLVKWLGDMTIYTGAIDSY
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* OYRRYMTI DFRELTL DFRRELTL SFRREMTI RYRTKMTI VNLSQDIS RFREMTI OFREMTI RYRLEMTI RYRREMTI RYRREMTI RYRREMTI SFRREMTI	400 LAIMEYNLTRSC MAGRIEGNIRO- SAGGIERSIRS- FSAIEAAVVRN- IFSSIENSIRK- FYYGEDSLTRI FYYEVENNVIRP- FYEVENNVIRP- FERAESLYTRA- FERAESLYTRA-
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* REGLNKLRNE PN NTGLERVUGPD STGLNNLRGTN NVGLDKLRGSS NVGLNSLRGST KKGLNLIKITPDSN QTGLGLPVNEQ NSGLSRLNGST KIGLDKLKGTT KIGLDKLKGTT KIGLDKLKGTT KIGLDKLKGTT KIGLDKLKGTT TKGLNDFRTAG TKGLNALRGST	380 LENFDGSFRG GTVHPHPSFT VCVNNLRGYG FTLNALGEYG FEESPYKYYD FEESPYKYYD FEESPYKYYD FEESPYKYYD FEESPYKYYD FEESPYKYYD FEESPYKYYD KSANDIASYG SISISNPDIG SISISNPDIG SISISNPDIG GRIVTITEL NGELYGLMTP
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660	-RLEITCRTPNSTQSYYIRLRYATNGAGNTL	OISTLRVNITAPLSQRYRVRIRYASTINLQFH	STSTRYRVRVR	PFAQRYRVRIR	SYSOKYRARIH	ALLORYRVRIR	-HFKITCQHSNFQQSYFIRIRYASNGSANTR	'AQEARD FTLNA	PLSOKYRVRVR	SLSORYRVRIR	-mdfrvrflknysrqyqvriryatnapktty	-GLIMRFKAELLDKKYRVRIRYKCNYSSKLI	FLSLRIK-LIASMTFRIRIRYASNISGQMM	-VUSFKVYCSELKNYRVRIRYASHGNCQFL	* 740	II P F I FNRADVS	SSVFTLSAHVFNSGNEVYIDRI	-NIVGVRNFSGTAGVIIDRF	-OSTFTIGAUNFSSGNEVYIDRI	-NNLQIGVTGLSAGDKVYIDKI	TNDFIIGAESFVSNEKIYIDKI	-NISLVFNRSDVYTNTTVLIDKI	SNLEYKCPENNFMIYUYNNS	-HPKITLHLSDLSNNSSFYVDSI	DKILLSMGDFS	TLLMTLYGTPN	VTYPYGRQFVE
ŧ	RLEITCRTE	OISTLRVNITA	GNFLFNGSVIS-GPGFTGGDLVRLNSSGNNIQNRGYIEVPIHFPSTSTRYRVRVRYASVTPIHLN	TFGDIRVNINPPFAQRYRVRIRYASTIDLQFH	WGSAATIYVTPDVSYSQKYRARIHYASTSQITFT	-nsiakfkytinsaalloryryriryasttnirif	HFKITCQHS	GIWATIGAQIENLRTTSLQEYQDSDDADEIQIELEDASDAWLVVAQEARDFTLNAYSTNSRQNLP	YIGDIKATVNSPLSQKYRVRVRYATNVSGQFN	ILGTFAVTVNGSLSQRYRVRIRYASTTDFEFT	MDFRVRFLF	GLTMRFKAE	FLSLRIK-I	VWSFKVYC	720	IGIPPQRLNNTFSGTNYN-NLQYGDFGYFQFPSTVTLPLNRNIPFIFNRADVSN-SILIIDKI	RPINGGNFSATMSSGSNLQSGSFRTVGFTTPFNFSNGS	-NLOSSDFGYFESANAFTSSLGN	-	1	1	-vaelgmalnptfsgtdytnlkykdfqylefsnevkfapnqm	STINMTSNQYSNPTINMTSNQYMISHEYTSLPNNFMLSRN	KITLQTKFQNTVETIGEGKDLTYGSFGYIEYSTTIQFPDEF	DTIEKNRFNKTMDNGASLTYETFKFASFITDFQFRETQDKILLSMGDFSSGQEVYIDRI	DTISVELPSTTSRQNPNATDLTYADFGYVTFPRTVPNKTFEGEDTLLMTLYGTPNHSYNIYIDKI	AFSYLESFITITIENIFDLTMEVTYPYGRQFVEDIPSLILDKI
640	WLQSQG	RRTSPG	RINSSEMNI	RRTNTG		ł	DEED	DESDEADETO	KRGSTG	KRTMPS	TLKDS	TKMRADS	KLEYER	TKMSYHS	*	YGDFGYFQF	SGSFRTVGF	1SSD FGY FES	-DLDYKTFRTVGFTTPFSFLDV	-TLTYNSFNLASFSTPFELSG-	NDFLVIYINKTMNIDGDLTYQTFDFATSNSNMGFSGD	CYKO FQYLE F	MISHEYTSL	IYGSFGYIEY	IYETFKFASF	TYAD FGYVTF	FSYLESFIIT
*	GNSLDTNSKVIEGPGHTGGNLVYLQSQG-	GPGFTGGDII	GPGFTGGDLV	GPGFTGGDII	GPRFTGGDII	GPGFTGGNLI	ANSLGTASKVYQGPGHTGGDLIDFKD-	LRITSLQEVÇ	GPGFTGGDLV	GDMLYLGGSVVQGPGFTGGDILKRTNPS	GPGHTGGDLV	GPGFTGGDLV	TNLVGANIIKGPGHTGGDLLKLEYER-	AYELRGNSSVVAGPGSTGGDLVKMSYHS	700	SCINYN-NIC	SSCSNI(1	I	į	MIDGDIN	FSGTDYTWLE	PITINIMITSNO	ETIGEGKOLI	DNGASL7	RQNPNATDLI	
620	LDTNSKVIE	.rgsgtswki	TENESAIS-	LSSGAAVVR	LOSGASVVA	TESCASILE	LGTASKVVQ	ATIGAQIEN	LDDPSTWK	LYLGGSVVO	VSSDSKIVK	INGSISTEK	VGANIIK	LRGNSSVVA	*	PPORLNNTF	NOGNESATM	SSIFSNIVPATATSLD-	KAINQGNFSATMNRGE	APFNQYYFDKTINKGD-	LVIYINKIM.	ELGMALNPT	NMTSNOYSN	LOTKFONTY	EKNRFNKTM	SVELPSTTS	-GYIQQQIHNISPTYG-
*	KIITMIPAIKGNS	SQITQIPLTKSTNLGSGTSVVKGPGFTGGDILRRTSPG-	DSITQIPAVKGNE	NSITQIPLVKAFNLSSGAAVVRGPGFTGGDILRRTNTG	KKITQLPLVKAYKLQSGASVVAGPRFTGGDIIQCTE-	EKITOLPVVKAYALSSGASIIEGPGFTGGNLLFLKESS	HLTTQIPAVKANS	EAIKVFQKLQGIU	NKITKIPAVKMYKLDDPSTVVKGPGFTGGDLVKRGSTG	DKITQIPAVKGDN	DNITQIHALKALKVSSDSKIVKGPGHTGGDLVILKDS	NKITQIPVVKASSINGSISIEKGPGFTGGDLVKMRADS	DKIVQIPAVKTWI	DEITQIPAVTAYE	680	PNISLTIPGVIG	TSIDGRP1	1	TSINGKA]	LSLDGAPI	ICMNSNDA	AVINLSIPGV	INVISDSCNCST	VYINDKIT	 	FLTGIDT3	LRKWKGEG)
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	exmi007	стуіла	crylAc	crylla	cry3Ael	сгузва	студда	стубда	cry7Aa	стувда	cry10Ae	сту16да	cry19Be	сту24Ав		exmi007	стуіла	crylac	crylla	стузда	cry3Be	сту4да	стубав	скулде	стувда	cry10Ae	сту16да

cry19Ba : INIG------YQNPTYFNIIPTTSRD-YTELKFEDFQLVDTSYIYSGGP--SISSNTLWLDNFSNGPVIIDKI : 632 cry24Aa : MKRWPS----TGVAPRQWARHNVQGTFSNSMRYEAFKYLDIFTITPEENN-----FAFTIDLESGGDLFIDKI : 643

		760	ŧc	780	łc	800		!
EFIPIT	EFIPIT	EFIPITSSVRONREKQKLETIQTKINTFFTNHTKNTLNIEATNYDID	COKLETIOT	KINTFFTMHTK	TLNIEAT	Man		744
EFVPAE	EFVPAE	E FVPAEVTFEAEYDI	ERAQKAVI	LERAQKAVNELFTSSNQIGLKTDVTDYHIDQVS	CTD VTD YH	SVOCI		648
EFIPVI	EFIPVI	EFIPVTATLEAEYNI	ERAOKAVN,	LERAQKAVNALFTSTNQLGLKTNVTDYHIDQVS	CINVIDYH	IDOVS		650
EFVPVE	EFVPVE	E FV PVE VTYE AE YD1	TEKAQEKVT	FEKAQEKVTALFTSTNPRGLKTDVKDYHIDQVS	KTTDVKDYH	DOVS		685
EFIPVN-	EFIPVE					 - - -	••	652
EFIPVQ	EFIPVO					1		629
EFLPIT	EFLPIT	EFLPITRSIREDREKOKLETVOQIINTFYANPIKNTLOSELTDYDIDQAA	ETVOOLIN	TFYANPIKNTL(JSELTDYD	IDOAA		722
DUYING	DUYINNS	NNAMGSNNAMG			1 1 1	1		475
EFIPVD	EFIPVD	EFIPVDVNYAEKEKLEKAQKAVNTLFTE-GRNALQKDVTDYKVDQVS	EKAUKAVN	TLFTE-GRMAL	DECOVIDING	VD OVS		677
EFIPW	EFIPVI	EFIPVDETYEAEQDLEAAKKAVNALFINTKO-GLRPGVTDYEVNQAA	EAAKKAVN	ALFTWIKD-GLI	REVIDAE	VINOAA		702
EFIPIT	EFIPIT	EFIPITQSVLDYTEKQNIEKTQKIVNDLFVN	CEKTOKIVN	DLFVN				675
EFLPTM-	EFLPTE							648
EFIPL	EFIPL	EFIPLGITLNQAQGYDTYDQNANGMYHQNYSNSGYNYNQEYNTYYQS	TOTYDONAN	GMYHQNY SNSG'	YNYNQEYN	TYYOS	••	679
EFIPV	EFIPV	EFIPVSGSAFEYEGKQNIEKTQKAVNDLFIN	CEKTOKAVN	DLFIN	1 1 1 1 1 1 1 1	1	••	674